



IECEX Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification Scheme for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.: IECEx SEV 18.0004X

Issue No: 0

Certificate history:

Issue No. 0 (2018-04-04)

Status: **Current**

Page 1 of 4

Date of Issue: **2018-04-04**

Applicant: **Cortem S.p.A.**
Via Aquileia, 10
34070 Villesse (Go)
Italy

Equipment: **Lighting fixtures Type: EVFD-..L**

Optional accessory:

Type of Protection: **"d", "t" and "op is"**

Marking:

Ex db op is IIB T6 Gb

Ex tb op is IIIC T85°C Db

or

Ex db op is IIB+H2 T6 Gb

Ex tb op is IIIC T85°C Db

Approved for issue on behalf of the IECEx
Certification Body:

Martin Plüss

Position:

Manager Product Certification

Signature:
(for printed version)

Date:

2018-04-04

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting the Official IECEx Website.

Certificate issued by:

Eurofins Electrosuisse Product Testing AG
Luppenstrasse 3
CH-8320 FEHRALTORF
Switzerland



**Electrosuisse
Product Testing**



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Certificate No: IECEX SEV 18.0004X

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Page 2 of 4

Manufacturer: **Cortem S.p.A.**
Via Aquileia, 10
34070 Villesse (Go)
Italy

Additional Manufacturing location(s):

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements. This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended.

STANDARDS:

The apparatus and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards:

IEC 60079-0 : 2011 Edition:6.0	Explosive atmospheres - Part 0: General requirements
IEC 60079-1 : 2014-06 Edition:7.0	Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
IEC 60079-28 : 2015 Edition:2	Explosive atmospheres - Part 28: Protection of equipment and transmission systems using optical radiation
IEC 60079-31 : 2013 Edition:2	Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"

*This Certificate **does not** indicate compliance with electrical safety and performance requirements other than those expressly included in the Standards listed above.*

TEST & ASSESSMENT REPORTS:

A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in

Test Report:

CH/SEV/ExTR18.0008/00

Quality Assessment Report:

IT/CES/QAR06.0002/12



IECEX Certificate of Conformity

Certificate No: IECEX SEV 18.0004X

Issue No: 0

Date of Issue: 2018-04-04

Page 3 of 4

Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

The luminaires Series EVFD-...L are used in hazardous area, indoor and/or outdoor, where flammable or explosive vapours gases or dust can be present.

They are composed of an enclosure for electronic driver housing and one or two (for double lighting fixture version) separated glass enclosure(s) containing the LED strip. The different parts of each chamber are assembled together by means of cylindrical joints while, the cable passage between the two housings, is made by a Cortem cable gland.

The tube that contains the LEDs is made up of a borosilicate glass tube sealed with two metallic end fittings through a silicone resin.

The enclosure for the electronic driver, made of metallic material, contains also the terminals for the cable connections.

The equipment has the types of protection "Ex d" and "Ex t".

The luminaires are suitable for:

- Gas Group IIB (for the minimum ambient temperature of -40°C);
- Gas Group IIB+H2 (for the minimum ambient temperature of -20°C);
- Dust Group IIIC.

Lighting fixtures are equipped with the following:

- internal-external earth screws;
- metallic reflector;
- metallic stay bolt for assembly fixture;
- metallic protection guard (on request);

SPECIFIC CONDITIONS OF USE: YES as shown below:

- Flameproof joints cannot be repaired.
- Use screws with property class \geq A2-70



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Certificate No: IECEX SEV 18.0004X

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Page 4 of 4

EQUIPMENT (continued):

Identification and characteristics:

<i>MODEL</i>		<i>POWER</i>	<i>VOLTAGE</i>	<i>FREQUENCY</i>	<i>N LED</i>
EVFD-1L	1 x Cortem LED Tube	38 W	120-240 VAC	50/60 Hz	72
EVFD-2L	2 x Cortem LED Tube	80 W	100-277 VAC	50/60 Hz	144

Protection degree: IP66

Cable entries

The accessories used for cable entries and for unused holes have to be subjected to a separate suitable IECEx certification.

Warning label

WARNING: Do not open when energized

WARNING: Do not open when an explosive atmosphere is present WARNING: Thread type and size: 3/4" NPT